



PHOTO BOOK













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SPOTLIGHT ON SCIENCE



AS the moon moves in its regular morably

orket around the earth, it screens from night any other object in the sky that may like it its path. The most familiar instance of nucla "likekent" socioles the mean and the sur in an exhipe. Not an appeared in an a solar elipse, per lane, is the wirestream that necess where

lage, is the phrostment that occurs where the mean passes infrast of attack, buding three pupulous of light for a period of time, in sultra attenumer call an occalibration, he seality, that is an orbitise of a star by the moses than observed the most completive block the same for a few aromates (Seconses budd objects). Here the same apparent are in the sky), the most conceals the "tip" and few a consider earlier transport of the sky of the star is the earlier transport of the sky of the star is the star earlier transport of the sky of the star is the star is the earlier transport of the sky of the star is the star is the earlier transport of the sky of the star is the star is the star transport of the star is the s

relably lenger person, exten arous an own-The occulation of a star is an exciting event to behold, and easily observable with a pair of himcolatar. The observer's heat bets is to hope for the occulation of a length star by the erescurd-shaped mean, for them he can see not only the bright crescens but also the dark part of the moon dimly illumenated by the earth's light.

the olderer can actually watch the dark edge of the moon inch closer and close to the star, until the later shines as a post of hight on the very edge of the mose. The observer hadly dares to blink, for seddenly, even as he looks, the star disappears from view.

This sudden disappearance of a vise is

seran-taxing sign and result from the latthan the most has no atmosphere. Sirelarly when the occultation is about to end, the ofserver most ear-fully keep his eye preded the other aide of the moon, for without warn ing, the ear will suddently shine out when a mountest earlier there was a void.

dense from these star occubations, is the thry contribute important data for predicting evilupes, tides, and similar phenomena. It probably has occurred to the reader that if the stars and the sun can be editated by

In probably has occurred to the reserve that the state and the union the adiption by the state and t

appear as does our meen, scenetures as creators, then ballfillumenated, and final as a full, round face.

During the occultation of a plants, the or does not enderly wants as a star does, do to its greater apparent size in the sky. It

n its greater apparent size in the sky. It is a thrilling experience to see Saturn hidde by the moon. In the preliminary stage par of the ring is hidden, then Saturn gradually begins to disappears, taking several manufest to seem behind the more. The yellow-hoed Saturn looks dulf compared with the moon, but Vernu is so brilliant in compartion with the moon that our satellite series like a healify

On mon other one melline seems that is mindturnished arrays.

Introduced arrays are the constrained and the constraint of the seed the mon-chain's experience and following the mon-chain experience and the constraint of the con

COLD LIGHT!

Ever store weierasts learned to preduce artificial light for the hearfit of the result of a state of the stat

Nature has demonstrated that it is posible to produce light which is practically 00 per cent efficient, where no best is generated in its production. The term applied to this product is cold light—and such creetures as firefles, gluowoms, certain fish and bactoms, cen create this light for themselves whenever they dealer.

and a numy of interner laring things to m done cold light have been seeking to discove the secret of this know-how for a long tim. If the raddle of cold light could be unravele it would prove of great commercial value resulting in the saving of n large percenting of energy that must now be expressed in our

One of the starting points in the effect pry loose the scoret of odd light from naturbas been an intersive study of the firely. On theory advanced for the natural shility of this insect to produce odd light in linked to it insuligenties of a substance called launic feets, which when combined with the copyes in the air preduces the pieterments of col-

Luciniferia to manufactured by certain glands in the firefly, specially constructed by nature for the purpose, known as high organs. They are virtually minute lanteras, and are frequently provided with a special lens, which feeded to the light.

and short reds in the femile, sporreed in the male, and short reds in the female. Each group of cells is surrounded by a clear complism contanting no granules. Behind this is a layer of special cells which act as reflectors. Air said water are necessary for the production of this light.

The cotal light produced by the aforement worsed segments has a warrier of ones—such twoest departments has a warrier of ones—such and the control of the control of the control would be compared to the control of the control of the control of the control of the general control of the control of the desposal ceratures, which live in complete defairnes, hiere on other source of light, and defairnes, hiere on other source of light, and other control of the control of th















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